

ASTN2 Antibody(N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19699a**Specification**

ASTN2 Antibody(N-term) - Product Information

Application	WB,E
Primary Accession	O75129
Other Accession	Q80Z10 , NP_001171664.1 , NP_054729.3 , NP_937829.3 , NP_937831.1
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	148243
Antigen Region	220-248

ASTN2 Antibody(N-term) - Additional Information**Gene ID** 23245**Other Names**

Astrotactin-2, ASTN2, KIAA0634

Target/Specificity

This ASTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 220-248 amino acids from the N-terminal region of human ASTN2.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ASTN2 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ASTN2 Antibody(N-term) - Protein Information**Name** ASTN2**Synonyms** KIAA0634

Function Mediates recycling of the neuronal cell adhesion molecule ASTN1 to the anterior pole of the cell membrane in migrating neurons. Promotes ASTN1 internalization and intracellular transport of endocytosed ASTN1 (By similarity). Selectively binds inositol-4,5- biphosphate, inositol-3,4,5-trisphosphate and inositol-1,3,4,5- tetrakisphosphate, suggesting it is recruited to membranes that contain lipids with a phosphoinositide headgroup (Ref.6).

Cellular Location

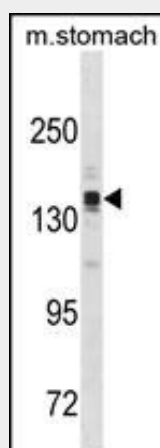
Membrane {ECO:0000250|UniProtKB:Q80Z10}; Multi- pass membrane protein {ECO:0000250|UniProtKB:Q80Z10}. Perikaryon {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q80Z10}. Early endosome {ECO:0000250|UniProtKB:Q80Z10}. Late endosome {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:Q80Z10}. Note=Integral membrane protein not detected at the cell membrane. Detected in cytoplasmic vesicles in the cell cortex, close to the anterior pole of migrating neurons. Detected at the base of the leading process in migrating neurons {ECO:0000250|UniProtKB:Q80Z10}

ASTN2 Antibody(N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ASTN2 Antibody(N-term) - Images



ASTN2 Antibody (N-term) (Cat. #AP19699a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the ASTN2 antibody detected the ASTN2 protein (arrow).

ASTN2 Antibody(N-term) - Background

This gene encodes a protein that is expressed in the brain and may function in neuronal migration, based on functional studies of the related astrotactin 1 gene in human and mouse. A deletion at

this locus has been associated with schizophrenia. Multiple transcript variants encoding different proteins have been found for this locus.

ASTN2 Antibody(N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Adkins, D.E., et al. Mol. Psychiatry (2010) In press :
Lesch, K.P., et al. J Neural Transm 115(11):1573-1585(2008)
Vrijenhoek, T., et al. Am. J. Hum. Genet. 83(4):504-510(2008)